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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/001,967	12/05/2001	Junichi Yano	60188-126	1397
75	90 05/04/2004		EXAMINER	
Jack Q. Lever, Jr.			KIM, KENNETH S	
	, WILL & EMERY			
600 Thirteenth Street, N.W.			ART UNIT	PAPER NUMBER
Washington, D	C 20005-3096		2111	-
			DATE MAILED: 05/04/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

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V	Application No.	Applicant(s)			
	10/001,967	YANO ET AL.			
Office Action Summary	Examiner	Art Unit	*		
	Kenneth S KIM	2111			
The MAILING DATE of this communication apperiod for Reply	opears on the cover sheet	with the correspondence address	S		
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repi - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by stature to reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may ply within the statutory minimum of tid will apply and will expire SIX (6) Mote, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this commun ABANDONED (35 U.S.C. & 133).	sication.		
Status					
1) Responsive to communication(s) filed on 05 L	December 2001.				
	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C	D. 11, 453 O.G. 213.			
Disposition of Claims		,			
4) Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.	KENNETH S. KIM PRIMARY EXAMINER			
Application Papers					
9)☐ The specification is objected to by the Examin	er.				
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b)☐ objected to	by the Examiner.			
Applicant may not request that any objection to the	e drawing(s) be held in abey	ance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct					
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attach	ed Office Action or form PTO-15	52.		
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list.	nts have been received. Its have been received in ority documents have been au (PCT Rule 17.2(a)).	Application No n received in this National Stage	e		
Attachment(s)					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>4 6</u>. 		o(s)/Mail Date Informal Patent Application (PTO-152) 			



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1. Claims 1-16 are presented for examination.

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, it is not clear what is meant by "the device composed of a programmable device which can reprogram a circuit configuration thereof," as to the relationship between the programmable device and the circuit configuration.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Trimberger, U.S. Patent No. 5,748,979.

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<u>Trimberger</u> teaches the invention as claimed in claim 1 including a semiconductor integrated circuit comprising:

- (a) a CPU (20),
- (b) an auxiliary operational device (21) for the CPU, the device composed of a programmable device which can reprogram a circuit configuration thereof (col. 8, line 3),
- (c) first diagnosing means for receiving one or more instruction and diagnosing whether the one or more instruction is a reserved instruction that can be processed by the auxiliary operational device (col. 12, line 45),
- (d) a configuration controller for programming circuit configuration data for executing processing of the reserved instruction into the auxiliary operational device (col. 12, line 60), and

further teaches a sin claims 2-7,

- (e) diagnosing means for diagnosing whether a circuit exist and execute the reserved instruction (col. 13, line 10) claim 2,
- (f) where no circuit for executing the processing of the reserved instruction exist, instructing the CPU to execute the processing using substitute instructions when the reserved instruction can not be executed (col. 15, line 35) claims 3-6,
- (g) configuration controller programming configuration data into the auxiliary operation device when no circuit for executing the processing of the reserved instruction exist (col. 12, line 60) claim 7.



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6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Gilson taught a method of reprogramming FPGA operating in conjunction with CPU.

Ohmi et al taught a method of configuring FPGA for specified processes.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth S KIM whose telephone number is (703) 305-9693. The examiner can normally be reached on M-F (8:30-17:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703) 305-4815. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

April 30, 2004

KENNÈTH S. KIM PRIMARY EXAMINER